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My laboratory focuses on the molecular mechanisms of inflammation leading to autoimmune disease. More specifically, we are investigating the regulation axis of long non-coding RNA (lncRNA)/microRNA/inflammatory targeted genes. Our penultimate goal is to identify the regulatory pathways and molecules instrumental in inciting and promoting autoimmune tissue damage. The final goal is to construct a therapeutic strategy to block autoimmune tissue destruction. Our concept is that destructive inflammation is the consequence of defective regulatory mechanisms. We are probing for the triggers that incite destructive inflammation.

Publications:

1. Asadi G, Varmaziar FR, Karimi M, Rajabinejad M, Ranjbar S, Karaji AG, Salari F, Hezarkhani LA, **Rezaiemanesh A**. Determination of the transcriptional level of long non-coding RNA NEAT-1, downstream target microRNAs, and genes targeted by microRNAs in diabetic neuropathy patients. Immunology Letters. 2021 Jan 27.
2. Rajabinejad M, Asadi G, Ranjbar S, Hezarkhani LA, Salari F, Karaji AG, **Rezaiemanesh A**. Semaphorin 4A, 4C, and 4D: function comparison in the autoimmunity, allergy, and cancer. Gene. 2020 Jul 1;746:144637.
3. Rajabinejad M, Ranjbar S, Afshar Hezarkhani L, Salari F, Gorgin Karaji A, **Rezaiemanesh A**. Regulatory T cells for amyotrophic lateral sclerosis/motor neuron disease: A clinical and preclinical systematic review. Journal of cellular physiology. 2020 Jun;235(6):5030-40.
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5. Lotfi R, Davoodi A, Mortazavi SH, Karaji AG, Tarokhian H, **Rezaiemanesh A**, Salari F. Imbalanced serum levels of resolvin E1 (RvE1) and leukotriene B4 (LTB4) in patients with allergic rhinitis. Molecular biology reports. 2020 Oct;47(10):7745-54.